

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)	
)	
Catharina SVANBORG et al)	Prior Group Art Unit: 1451
)	
Application No.: Divisional of U.S. Patent)	Prior Examiner: David M. Naff
Application No. 09/639,938,)	
filed August 17, 2000)	Confirmation No.: To be assigned
)	
Filed: July 11, 2003)	
)	
For: PROTEIN COMPLEX FROM ION-)	
EXCHANGE CHROMATOGRAPHY)	
FOR TREATMENT OF BACTERIAL)	
INFECTIONS (as amended))	

SUBMISSION OF FORMAL DRAWINGS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

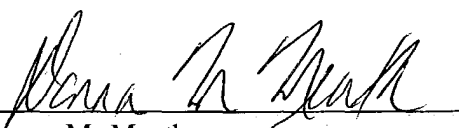
Sir:

Enclosed please find 4 sheet(s) of formal drawings for review by the Patent and Trademark Office. Should the enclosed drawings require changes, it is respectfully requested that the Patent and Trademark Office notify the undersigned of same.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: July 11, 2003

By: 
Donna M. Meuth
Registration No. 36,607

P.O. Box 1404
Alexandria, Virginia 22313-1404
(703) 836-6620

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : A61K 38/38, 35/20	A1	(11) International Publication Number: WO 96/04929 (43) International Publication Date: 22 February 1996 (22.02.96)
<p>(21) International Application Number: PCT/SE94/00742</p> <p>(22) International Filing Date: 16 August 1994 (16.08.94)</p> <p>(71)(72) Applicants and Inventors: SABHARWAL, Hemant [DN/SE]; Björn Järnsidas Gränd 12, S-224 77 Lund (SE). SVANBORG, Catharina [SE/SE]; Arkivgatan 4, S-223 59 Lund (SE).</p> <p>(74) Agent: INGER, Lars, Ulf, Bosson; Garvaregatan 12, S-262 63 Ängelholm (SE).</p>		<p>(81) Designated States: AU, BR, CA, CZ, FI, HU, JP, KR, NO, NZ, PL, RU, SK, US. European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>With international search report.</i></p>
<p>(54) Title: ANTIBACTERIAL COMPOSITION CONTAINING MULTIMERIC ALPHA-LACTALBUMIN</p> <p>(57) Abstract</p> <p>The present invention relates to the use of a multimeric alpha-lactalbumin in the preparation of preparations to be used in therapeutic or prophylactic treatment and/or for diagnostic use for infections, preferably of the respiratory tract, caused by bacteria, in particular <i>S. pneumoniae</i> and/or <i>H. influenzae</i>.</p>		

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 94/00742

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: A61K 38/38, A61K 35/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC6: A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

MEDLINE, BIOSIS, EMBASE, WPI, WPIL, PAJ, US PATENTS FULLTEXT DATABASES

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP, A1, 0339656 (GOLD, PHIL), 2 November 1989 (02.11.89), page 2, line 35 - line 36; page 7, line 40 - line 50, see the claims; the abstract	1-6,11,15
X	Dialog Information Service, file 5, Biosis Dialog accession No. 4510781, Biosis accessiion No. 7888460, Herlea V et al: "Testing the Anti Microbial Activity of some Active Factors Isolated from Human Milk and Colostrum", REV Roum Biol Ser Biol Veg 28 (2). 1983 (REOD, 1984), 145-152	1-6,11,15

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"A" document member of the same patent family

Date of the actual completion of the international search

31 March 1995

Date of mailing of the international search report

05 -04- 1995

Name and mailing address of the ISA/
Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
Facsimile No. +46 8 666 02 86

Authorized officer

Carolina Palmcrantz
Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 94/00742

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US, A, 5290571 (GUSTAVO BOUNOUS ET AL), 1 March 1994 (01.03.94), column 5, line 11; column 19, line 33 - column 20, line 25, the claims --	1-6, 11, 15
X	EP, A1, 0022696 (INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE (INRA)), 21 January 1981 (21.01.81) --	5-6
X	Biochim.Biophys.Acta, Volume 229, 1971, Nancy I. Phillips et al, "Isolation and Properties of Human alfa-Lactalbumin" page 408, line 15 - line 18 --	12-14
X	FR, A1, 2671697 (SNOW BRAND MILK PRODUCTS CO.LTD.), 24 July 1992 (24.07.92), see the claims -----	12-14

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 94/00742

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 7-10
because they relate to subject matter not required to be searched by this Authority, namely:
See PCT Rule 39.1 (iv): Methods for treatment of the human or animal body by surgery or therapy, as well as diagnostic methods.
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT
Information on patent family members

25/02/95

International application No.

PCT/SE 94/00742

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP-A1- 0339656	02/11/89	SE-T3- 0339656 AT-T- 113474 CA-A- 1333471 DE-D- 68919114 ES-T- 2065352 JP-A- 2152929 US-A- 5230902 US-A- 5290571 AU-B- 638439 AU-A- 4670189 CA-A- 2005779 CN-A- 1044659 EP-A- 0374390 EP-A- 0375852 JP-A- 3139245 NZ-A- 231865	15/11/94 13/12/94 00/00/00 16/02/95 12/06/90 27/07/93 01/03/94 01/07/93 28/06/90 23/06/90 15/08/90 27/06/90 04/07/90 13/06/91 25/02/94
US-A- 5290571	01/03/94	AT-T- 113474 CA-A- 1333471 DE-D- 68919114 EP-A, A, A 0339656 SE-T3- 0339656 ES-T- 2065352 JP-A- 2152929 US-A- 5230902 AU-B- 638439 AU-A- 4670189 CA-A- 2005779 CN-A- 1044659 EP-A- 0374390 EP-A- 0375852 JP-A- 3139245 NZ-A- 231865	15/11/94 13/12/94 00/00/00 02/11/89 16/02/95 12/06/90 27/07/93 01/07/93 28/06/90 23/06/90 15/08/90 27/06/90 04/07/90 13/06/91 25/02/94
EP-A1- 0022696	21/01/81	SE-T3- 0022696 AU-B- 538288 AU-A- 5966680 CA-A- 1136919 FR-A, B- 2459619 JP-C- 1701735 JP-B- 3062720 JP-A- 56036494 US-A- 4485040 US-A- 4711953	09/08/84 08/01/81 07/12/82 16/01/81 14/10/92 26/09/91 09/04/81 27/11/84 08/12/87
FR-A1- 2671697	24/07/92	JP-A- 4330252	18/11/92

FIG 1

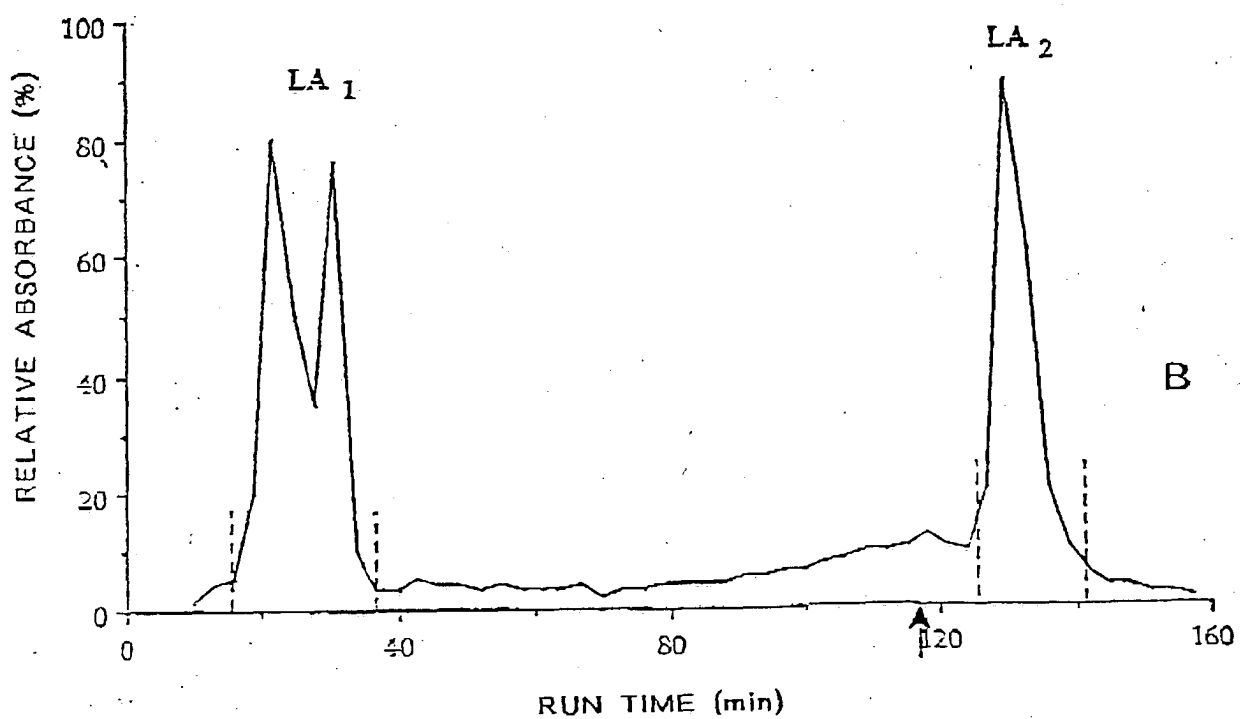
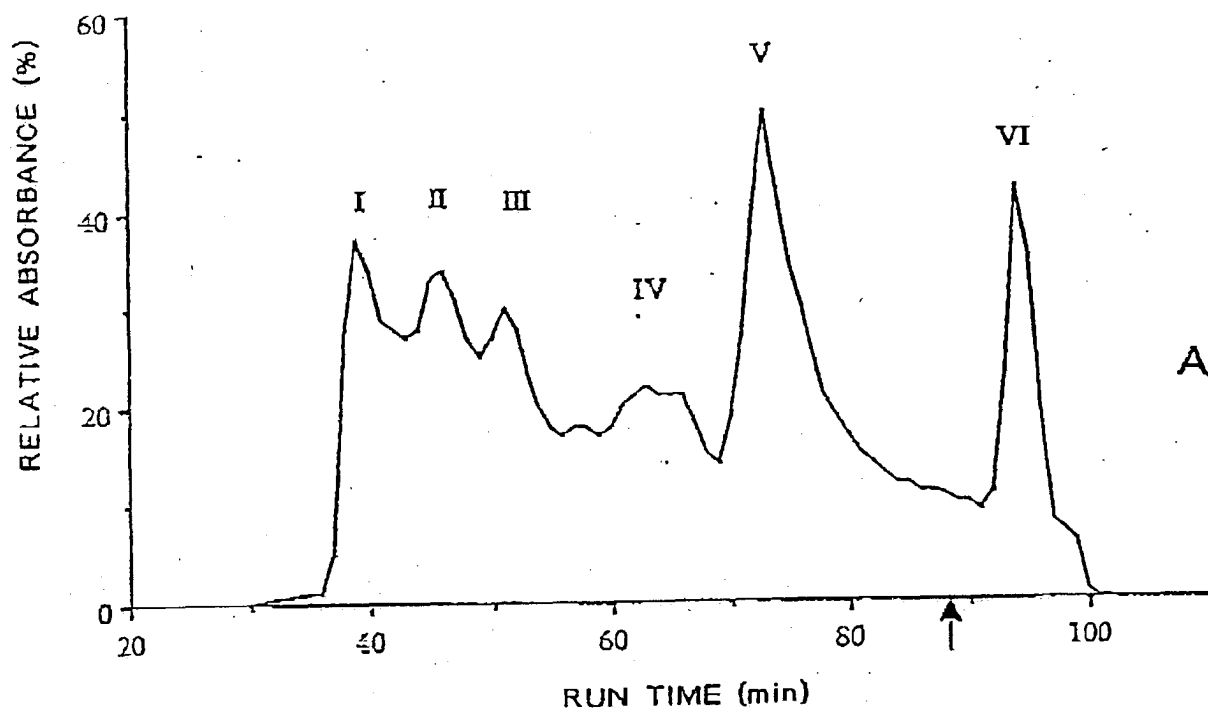


FIG 2

